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(54) **HARDWARE BUTTONS ACTIVATED BASED ON FOCUS**

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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,227,771 A	7/1993	Kerr et al.
5,467,102 A	11/1995	Kuno et al.
5,847,698 A	12/1998	Reavey et al.
7,289,084 B2	10/2007	Lesniak
RE40,821 E	7/2009	Narayanaswamy et al.
8,046,701 B2	10/2011	Chiu et al.
2003/0020754 A1	1/2003	Berman
2003/0146897 A1	8/2003	Hunter

(Continued)

OTHER PUBLICATIONS

U.S. Appl. No. 13/187,026, filed Jul. 20, 2011, Chen.

(Continued)

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(57)

ABSTRACT

Methods and devices for providing one or more control buttons in connection with a multiple screen device are provided. More particularly, the screen of a multiple screen device having a current focus is identified, and one or more control buttons are provided as part of or in association with the identified screen. When a change in focus from a previously identified screen to a different screen is detected, the presentation of the one or more control buttons can also change. In particular, control buttons are presented as part of a screen having the current focus, while control buttons are not provided on or in association with a screen that does not have the current focus.

20 Claims, 20 Drawing Sheets

